

Form Approved OMB No. 2010-0019 Approval Expires 12-31-89



90-890000 370

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

AM 9: 1/

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office

For Agency Use Only:
Date of Receipt:
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Docket Number:

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A (ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	con	pleted in response to the <u>Federal Register Notice of $[1,2]$ $[2]$ $[3]$ $[3]$ year</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[\underline{\overline{O}}]\underline{\overline{Z}}]\underline{\overline{G}}]\underline{\overline{J}}]\underline{\overline{J}}]-[\underline{\overline{G}}]\underline{\overline{Z}}]-[\underline{\overline{S}}]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule NA
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]-[_]]
		Name of chemical substance
1.02	Ide	entify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>	Maı	nufacturer 1
[_]	Imj	oorter 2
	Pro	ocessor3
	X/1	manufacturer reporting for customer who is a processor4
	X/1	Processor reporting for customer who is a processor
[_]	Marl	(X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?
CBI	Yes [Go to question 1.04
[_]	No
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the <u>Federal Register</u> Notice? Circle the appropriate response.
	Yes
	No
	b. Check the appropriate box below:
	[] You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	[] You have chosen to report for your customers
	[_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
<u>CBI</u>	Trade name Lupranate T80 Type 1 and Monder TD80
[_]	Is the trade name product a mixture? Circle the appropriate response.
	Yes 1
	No
	No
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
CBI	"I hereby certify that, to the best of my knowledge and belief, all information
(<u> </u>	Frank M. Lymburner Frenh M. Lymburner June 30/59 NAME SIGNATURE DATE SEGNED
	V.P. Manufacturing (313) 373 - 8100 TITLE TELEPHONE NO.
[_]	Mark (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u> [_]	Exemptions From Reporting If with the required information on within the past 3 years, and this for the time period specified in are required to complete section now required but not previously submissions along with your Section	a CAIR s inform the rull 1 of the submitte	Reponational Report of the Rep	rting Form for the current, according the ceromand property of the copy of the	he listed curate, ar tificatior vide any i	substance nd complete n below. You information
	"I hereby certify that, to the beinformation which I have not include to EPA within the past 3 years as period specified in the rule."	luded i	n thi	s CAIR Reporting	Form has	been submitted
	NAME			SIGNATURE		DATE SIGNED
	TITLE N. A.	(_) <u> </u>	ELEPHONE NO.	DA	ATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> [_]	CBI Certification — If you have certify that the following states those confidentiality claims which "My company has taken measures to and it will continue to take these been, reasonably ascertainable by using legitimate means (other that a judicial or quasi-judicial production is not publicly available would cause substantial harm to reserve the certification of the continuous content of the certification of the certificatio	ments to the you look o protection se measing other an disconceeding lable e	ruthfnave at th ares; pers overy) with	ully and accurate asserted. e confidentiality the information ons (other than based on a show hout my company's ere; and discloss	y of the in is not, a government ing of special specia	information, and has not t bodies) by ecial need in the
	NAME		``	SIGNATURE		DATE SIGNED
	TITLE			TELEPHONE NO.		
[_] !	Mark (X) this box if you attach a	contin	uatio	n sheet.		,

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [P]E]T]E R]S]O]N]_ E]Z]A]S]T]O[M]E]R]S]_]I]N]O_]
[_]	Address [4][][6][0][][5][1][4][P][E][E][R][0][][1][1][1][1][1][1][1][1][1][1][1][1][
	[전][[][[][[][[][[][[][[][[][[][[][[][[][
	[M] <u>T</u>] [<u>4]\$]<u>0</u>]5]<u>7</u>][<u>7]</u>7]<u>7</u>] State Zip</u>
	Dun & Bradstreet Number $\dots [\overline{I}] \overline{\mathcal{O}}] - [\overline{\mathcal{J}}] \overline{\mathcal{J}}] \overline{\mathcal{J}}] - [\overline{\mathcal{G}}] \overline{\mathcal{J}}] \overline{\mathcal{J}}$
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification SAME AS ABOVE
CBI	Name [_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]
[_]	Address [_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] Ci ty
	[_]_] [_]_]_][_]_]_]_] State
	Dun & Bradstreet Number[_]_]-[_]]-[_]]-[_]]]
	Employer ID Number[_]_]_]_]_]_]_]]
[_]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name [H]3]F]_]I]N]C]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]]
	[<u> </u>
	[<u>M]</u> <u>I</u>] [<u>4</u>] <u>8</u>] <u>0</u>] <u>3</u>]5][]]]] State
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	Name [F]R]A V K] Z Y M B U B V E R]]]]]]]]]]
[_]	Title $[V]P[-]M]A[N]U[F]A[C]F[U]R[][N]G[-]-[-]-[-]-[-]-[-]-[-]-[-]-[-]-[-]-[-$
	Address [4] [5] [5] [5] [4] [6] [6] [6] [7] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7
	[ア] <u>[</u>] [] [] [] [] [] [] [] [] []
	[<u>两]</u> <u>丁</u>] [<u>子]</u>] <u>[]</u>][<u>]</u>]][<u>]</u>]]]][<u>]</u>]]]]
	Telephone Number
1.13	This reporting year is from $[\overline{\underline{o}}] \overline{7}] [\overline{\underline{s}}] \overline{7}]$ to $[\overline{\underline{o}}] \overline{\underline{c}}] [\overline{\underline{s}}] \overline{\underline{s}}]$ Mo. Year
[_] !	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: N
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_[_][_]_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
	[_]_] [_]_]-[_]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]]]]]]]]]]]]]
	Telephone Number
[_] 1	Mark (X) this box if you attach a continuation sheet.

	Quantity (k
Manufactured	
Imported	<u>NA</u>
Processed (include quantity repackaged)	<u>8978</u>
Of that quantity manufactured or imported, report that quant	ity:
In storage at the beginning of the reporting year	<u>NA</u>
For on-site use or processing	<u>pa</u>
For direct commercial distribution (including export)	······· <u>NA</u>
In storage at the end of the reporting year	<u>~~</u>
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	940
**Processed as a reactant (chemical producer)	89.78
Processed as a formulation component (mixture producer) .	<u>o</u>
Processed as an article component (article producer)	<u>o</u>
Repackaged (including export)	<u>o</u>
In storage at the end of the reporting year	
* TOI IS PROCESSED AS A REACTANT.	_
TOI REMAINING IN THE PREPOLYMER	IS LESS THAN
17 AND IS PRESENT AS A NOW-I	NTENTIENAL
Im,	PURITY

	IDENTIFICATION OF MIXTURES Mixture - If the listed sub or a component of a mixture, chemical. (If the mixture of each component chemical for	estance on which you are required provide the following info	rmation for each	component
_ _]			Avera Composition	by Weight
	Component Name	Supplier Name	(specify periods) (specify periods)	orecision, 5% <u>±</u> 0.5%)
	NA.			
			$\overline{}$	
			Total	100%

2.04	State the quantity of the listed substance that your facility man or processed during the 3 corporate fiscal years preceding the redescending order.	nufactured, imported, eporting year in
CBI		
[_]	Year ending	$\dots [\overline{\underline{o}}]_{\underline{G}} [\overline{\underline{3}}]_{\underline{7}}$ Mo. Year
	Quantity manufactured	<i>NA</i> kg
	Quantity imported	<i></i>
	Quantity processed	<u>92,090</u> kg
	Year ending	[<u>0</u>] <u>[</u>] [<u>§</u>] <u>[</u>] Mo. Year
	Quantity manufactured	<i>NA</i> kg
	Quantity imported	NA. kg
	Quantity processed	<u>89,236</u> kg
	Year ending	[<u>Ø</u>] <u>&</u>] [<u>Ø</u>] <u>5</u>] Mo. Year
	Quantity manufactured	<i>N A</i> kg
	Quantity imported	kg
	Quantity processed	<u>88204</u> kg
2.05 <u>CBI</u>	Specify the manner in which you manufactured the listed substance appropriate process types.	. Circle all
[_]	Continuous process	1
	Semicontinuous process	2
	Batch process	3
[_]	Mark (X) this box if you attach a continuation sheet.	

[_]	Mark (X) this box if y	ou attach a continuat	ion sheet.	
	Amount of decrease			p U. <i>I</i> -(,
	Amount of increase			<u> </u>
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.	, or processed at any rease or decrease bas	time after your curred upon the reporting	ent corporate fiscal year's production
	Processing capacity .	• • • • • • • • • • • • • • • • • • • •		Unknown kg/yi
[_]	Manufacturing capacity			kg/yr
2.07 CBI	State your facility's substance. (If you ar question.)	name-plate capacity f e a batch manufacture	or manufacturing or per or batch processor,	processing the listed do not answer this
	Batch process			
	Semicontinuous process			2
[_]	Continuous process			1
CBI	appropriate process ty			
2.06	Specify the manner in	which you processed t	he listed substance.	Circle all

2.09	listed substanc	e, specify the number og the reporting year.	ring or processing proces f days you manufactured of Also specify the average If only one or two operat	or processed number of h	the listed ours per
<u>CBI</u>				Days/Year	Average Hours/Day
*	Process Type #1	(The process type invo quantity of the listed	lving the largest substance.)		
		Manufactured		NA	MA.
		Processed		100	<u></u>
	Process Type #2	(The process type invo quantity of the listed			
		Manufactured	• • • • • • • • • • • • • • • • • • • •		
		Processed			
	Process Type #3	(The process type invo quantity of the listed			
		Manufactured			
		Processed			
<u></u>	TOI IS US	ED IN ONE PROCESS -	PREPARATION OF TAI	- PREPOLY.	nërs
2.10 CBI	State the maxim substance that chemical.	um daily inventory and a was stored on-site duri	average monthly inventory ng the reporting year in	of the lis the form of	ted a bulk
[_]					
	Maximum daily i	nventory			kg
	Average monthly	inventory	1.A.	***************************************	kg
[_]	Mark (X) this b	ox if you attach a cont	inuation sheet.		

<u>[</u> _]	introduced int etc.).	o the product (e.g., car	ryover from raw	material, reaction	
	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or <u>Impurities</u>
	None	greater than	9.19 ₀		

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

[_]	quantity of listed substance listed under column b., and the instructions for further	the types of en	d-users for each pr	oduct type. (Refer to
	Ma	anufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	B	0%	100%	I
	<pre>"Use the following codes to designate prod A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sequestrant G = Cleanser/Detergent/Degreaser H = Lubricant/Friction modifier/Antiwear agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesive and additives</pre>		L = Moldable/Castab M = Plasticizer N = Dye/Pigment/Col O = Photographic/Re and additives P = Electrodepositi O = Fuel and fuel a R = Explosive chemi S = Fragrance/Flavo T = Pollution contr U = Functional flui V = Metal alloy and W = Rheological mod	on/Plating chemicals dditives cals and additives r chemicals ol chemicals ds and additives additives ifier
	² Use the following codes to o I = Industrial CM = Commercial	CS = Consu		

<u>CBI</u>	corporate fiscal year. import, or process for substance used during t used captively on-site types of end-users for explanation and an exam	each use as a perce he reporting year. as a percentage of each product type.	ntage of the total vo Also list the quanti the value listed unde	<pre>lume of listed ty of listed substanc r column b., and the</pre>
	a.	b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	<i>B</i>	0%	1067c	
	¹ Use the following code A = Solvent		L = Moldable/Castabl M = Plasticizer	e/Rubber and additive
	B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adhe	er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier esive and additives	O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier

		•		
	\ a.	b.	C.	d.
			Average % Composition of	
		Final Product/s	Listed Substance	Type of
	Product Type ¹	Final Product's Physical Form ²	in Final Product	End-Users ³
	Troductifye	Thy Steat Total		
_				
		N.A		
¹U	se the following c	odes to designate pro	oduct types:	
А	= Solvent		L = Moldable/Castable	/Rubber and additi
	= Synthetic react	ant	M = Plasticizer	
	= Catalyst/Initia		N = Dye/Pigment/Color	
	Sensitizer		<pre>0 = Photographic/Repr</pre>	ographic chemical
D	= Inhibitor/Stabi	lizer/Scavenger/	and additives	
	Antioxidant	-	P = Electrodeposition	
E	= Analytical reag	ent	Q = Fuel and fuel add	
F	= Chelator/Coagul	ant/Sequestrant	R = Explosive chemica	
G	= Cleanser/Deterg	ent/Degreaser	S ≠ Fragrance/Flavor	
H	= Lubricant/Frict	ion modifier/Antiwea	r = Pollution control	
	agent		U = Functional fluids	
I	<pre>= Surfactant/Emul:</pre>	sifier	V = Metal alloy and a	
	= Flame retardant		W = Rheological modif	ier
K	= Coating/Binder/	Adhesive and additive	es X = Other (specify)	
			e final product's physic	al form:
	= Gas		ystalline solid	
	= Liquid	F3 = Grade	`	
	= Aqueous solution		ner solid	
_	= Paste	G = Ge		
	= Slurry	H = Oth	ner (specify)	
	1 = Powder			
		odes to designate the		
	= Industrial	CS = Cor		
С	M = Commercial	H = Oth	ner (specify)	

2.15 CBI		le all applicable modes of transportation used to delive	er bulk shipments of th	ıe
[_]	Trucl	C		1
	Rail	çar		2
	Barge	e, Vessel		3
	Pipe:	line	• • • • • • • • • • • • • • • • • • • •	4
	Plane	e		5
	0 the	(specify)		6
2.16 <u>CBI</u> []	or profer	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for and use listed (i-iv).		
	i.	Industrial Products		
		Chemical or mixture	ko	/yr
		Article		/yr
	ii.	Commercial Products Δ		. , _
		Chemical or mixture	kσ	/yr
		Article		/yr
	iii.	Consumer Products		, , -
		Chemical or mixture	kg	/yr
		Article		/yr
	iv.	Other	\	
		Distribution (excluding export)	kø	/yr
		Export		/yr
		Quantity of substance consumed as reactant		/yr
		Unknown customer uses		/yr
				·· y =
[_]	Mark	(X) this box if you attach a continuation sheet.		_

LWVI	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trace The average price is the market value of the product substance.	les are treated a	ıs purchases.
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	NA	
	The listed substance was transferred from a different company site.	NA	
	The listed substance was purchased directly from a manufacturer or importer.	89783	2.54
	The listed substance was purchased from a distributor or repackager.	NA.	
	The listed substance was purchased from a mixture producer.	N4	
3.02 CBI []	Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline Other (specify)		

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders
		Tank rail cars
		Hopper cars 5
		Tank trucks6
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders <u>NA</u> mmHg
		Tank rail cars NA mmHg
		Tank trucks Man mmHg
[_]	Maı	ck (X) this box if you attach a continuation sheet.

3.04 <u>CBI</u> []	of the mixture, the name	of its supplier(s) ion by weight of the	form of a mixture, list the or manufacturer(s), an estance in the rorting year.	timate of the
	Trade Name	Supplier or <u>Manufacturer</u>	Average % Composition by Weight (specify <u>+</u> % precision)	Amount Processed (kg/yr)
		'n). A.	

PART 3.05 CBI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and				
[_]	the percent composition, by w	veight, of the listed subs	% Composition by		
		Quantity Used (kg/yr)	Weight of Listed Sub- stance in Raw Material (specify <u>+</u> % precision		
	Class I chemical	84.783	79.999%		
	Class II chemical				
	Polymer				

		SECTION 4	PHYSICAL/CH	EMICAL PROP	PERTIES		ana da a
Genera	l Instructions:						
If you 4 that	are reporting on a are inappropriate	mixture as to mixtures	defined in by stating	the glossa: "NA mix	ry, reply ture."	to questions	in Section

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

	A PHYSICAL/CHEMICAL DAT	TA SUMMARY				
4.01 <u>CBI</u>	Specify the percent purity for the three major 1 technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.					
·		Manufacture	Import	Process		
	Technical grade #1	% purity	% purity	99 999% purity		
	Technical grade #2	% purity	% purity	NA % purity		
	Technical grade #3	% purity	% purity	_ NA % purity		
4.02	substance, and for ever an MSDS that you develo	tly updated Material Safe by formulation containing oped and an MSDS develope ther at least one MSDS ha	g the listed substan ed by a different so	ce. If you possess urce, submit your		

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s)

4.04 For each activity that uses the listed substance, circle all the applicable number(s corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

	Physical State							
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas			
Manufacture	1	2	3	4	5			
Import	1	2	3	4	5			
Process	1	2	3	4	5			
Store	1	2	3	4	5			
Dispose	1	2	3	4	5			
Transport	1	2	3	4	5			

[] Mark (X) this box if you attach a continuation sheet.

4.05	Particle	Size If the lis	ted substance e	xists in	narticu]	ate for	m during	any of the
4.65	following	activities, indica	ate for each ap	plicable	physical	state	the size	and the
	percentag particles	e distribution of >10 microns in di	the listed subs ameter. Measur	tance by e the ph	y activity Nysical st	ate and	ot includ particle	e sizes for
~*	importing	and processing ac	tivities at the	time yo	u import	or begi	n to proc	ess the
CBI	storage,	bstance. Measure disposal and trans	tne pnysical st port activities	ate and using t	he final	state of	of the pro	duct.
		`						
	Physical			_	_	_		
	State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Powder	<1 micron						
	TOWLET							
		1 to <5 microns						
		5 to <10 microns						
				A				
	Fiber	<1 micron	<u> </u>	<u></u>				
		1 to <5 microns		$\overline{}$				
		5 to <10 microns						
	Aerosol	<1 micron						
	ACTUSU1				$\overline{}$			
		1 to <5 microns						
		5 to <10 microns			-	\rightarrow		
						\		
<u></u> 1	Mark (Y)	this box if you at:	tach a continua	tion she	at .			

		SECTION 5 ENVIRONMENTAL FA	ГЕ	
PART	AR	RATE CONSTANTS AND TRANSFORMATION PRODUCTS		
5.01	Ind	dicate the rate constants for the following transf	ormation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	(1/M cm) at	nm
		Reaction quantum yield, ø	at	nm
		Direct photolysis rate constant, k _p , at	1/hr	latitude
	b.	Oxidation constants at 25°C:		
		For ¹ 0 ₂ (singlet oxygen), k _{ox}		1/M hr
		For RO ₂ (peroxy radical), k _{ox}		
	c.	Five-day biochemical oxygen demand, BOD ₅		
	d.	Biotransformation rate constant:		
		For bacterial transformation in water, k _b		1/hr
		Specify culture		
	e.	Hydrolysis rate constants:		
		For base-promoted process, k _B		1/M hr
		For acid-promoted process, k _A		1/M hr
		For neutral process, k _N	x.K.	1/hr
	f.	Chemical reduction rate (specify conditions)		
	g.	Other (such as spontaneous degradation)		

		Mark	(X)	this	box	if	you	attach	а	continuation	sheet
--	--	------	-----	------	-----	----	-----	--------	---	--------------	-------

PART	в Р	ARTITION COEF	FICIENTS							
5.02	a.	Specify the l	nalf-life	of the l	isted substa	ance in the	followin	ng media		
		Media				Half-lif	e (specif	y units)	
		Groundwater								
		Atmosphere								
		Surface water								
		Soil								
	b.	Identify the life greater			s known trar	nsformation	products	that h	ave a	half-
		CAS No).		Name	Half-l (specify			Medi	l <u>a</u>
								in		
								in		
					U. K.			in		
					$\overline{}$			in		
5.03		cify the octar								at 25°C
5.04	Spe	cify the soil-	-water pa	rtition c	oefficient,	К _а				at 25°C
	Soi	l type			• • • • • • • • • •	_				
5.05	Spe coe	cify the organ	nic carbo	n-water pa	artition					at 25°C
5.06	Spe	cify the Henry	's Law C	onstant,	н				_ atm	m ³ /mole
[_]	Mar	k (X) this box	if you	attach a	continuation	sheet.				

Bioconcentration Factor	<u>Species</u>	Test ¹
¹ Use the following codes to des	ignate the type of test:	
F = Flowthrough S = Static		
	u.K.	
	a, vi.	

6.04 CBI	For each market listed below, st the listed substance sold or tra	ate the quantity sold and the insferred in bulk during the r	e total sales value of eporting year.
[_]	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers	N. A-	
	Article producers		
	Other chemical manufacturers or processors		
	Exporters	ente 9 (110 110 11 11 11 11 11 11 11 11 11 11 11	
	Other (specify)		
6.05 <u>CBI</u>	Substitutes List all known co for the listed substance and sta feasible substitute is one which in your current operation, and w performance in its end uses.	te the cost of each substitut is economically and technolo	e. A commercially gically feasible to use
[_]	Substitu	ite	Cost (\$/kg)
	None Kn.	p w M	

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

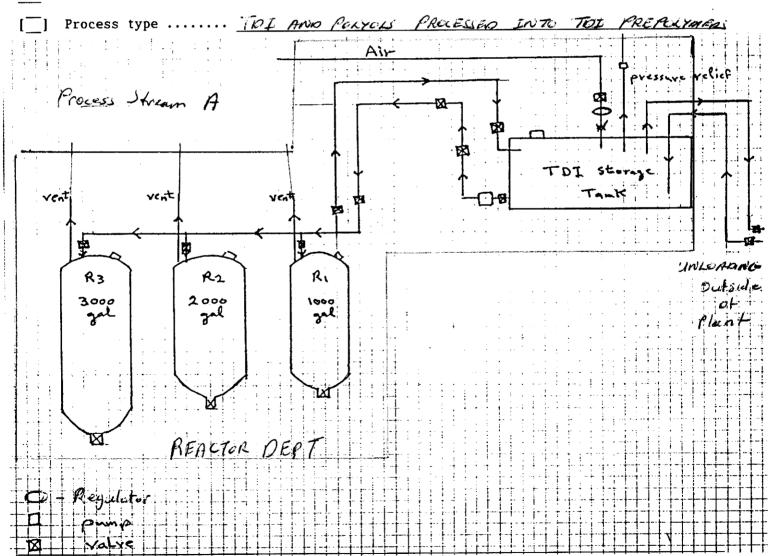
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

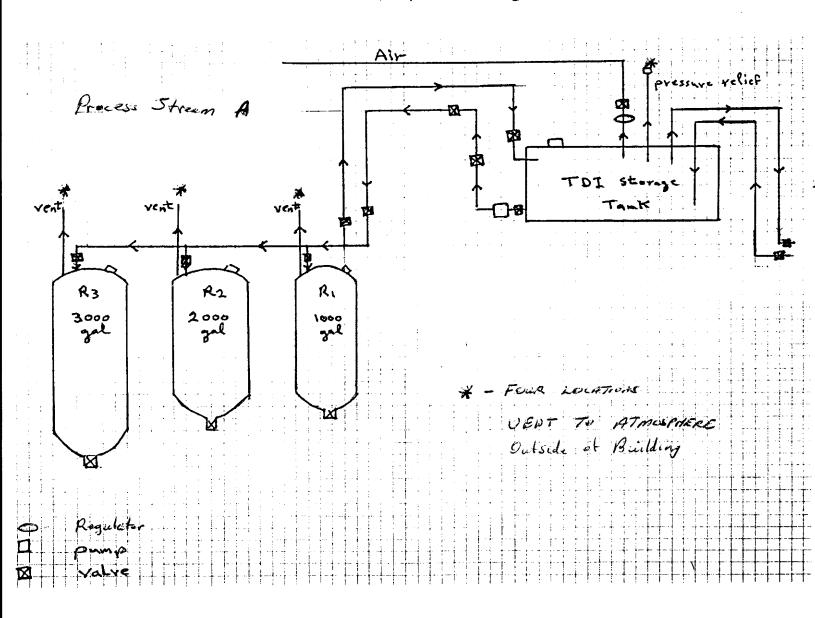


___] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

[] Process type TOI AND POLYOLS PROLESSED INTO TOI PREPLYMENT



[] Mark (X) this box if you attach a continuation sheet.

CBI	than one process type.	t flow diagram(s). If a peess type, photocopy this	question and com	plete it separate	ely for each
[_]	Process type	The prop P	olyols proces	SED INTO TO	I PREPULINAS
	Unit Operation ID Number	Typical Equipment	Operating Temperature Range (°C)	Pressure Range (mm Hg) 74-2	Vessel Composition Glass Lined Heat/cool jacket
	<u>R-2</u>	Love got Phinaller	25-9c	760 to 20	Glass Lined Heatford jacket
		3000 yal Manutahirel.	25-90	1760 to 20	304 Stuntes: Menticent jouket
		* De not c		er pressure	

7.05	process block fi	rocess stream identified in yo low diagram is provided for mo nplete it separately for each	re than one process typ	pe, photocopy this
CBI				
[_]	Process type	TOI AND POLYCL	S PROCESSED INTO	TOI PREPOLY
	Process Stream ID Code	Process Stream Description Reaction of Tot and Polya	Physical State ¹	Stream Flow (kg/yr) 89783
	GC = Gas (conde GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous 1: OL = Organic 1:	iquid	and pressure) re and pressure)	

CBI	instructions	on and complete it separate for further explanation	and an example) TOT	
[]	Process type	TOI AND (r	
	a.	b.	с.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
(R-1, R-2+R-3)	Known Compounds ¹ TDI Pelyoxypropylene polyol (2000 mel. Widiel)	14.870 EW	79.5%	0.5% Free TK
	,	Polyoxypropylene polyol	85.27 F.W.	/ prepulymen	as imprisity
		(2000 mol. Wifiel)			
			And the second s		
7.06	continued be	elow			

Assign an additive packa column b. (Refer to the	n additive package, and the conc age number to each additive pack e instructions for further expla or the definition of additive pa	age and list this nu nation and an exampl
Additive Package Number	Components of Additive Package	Concentratio (% or ppm)
1		-
2	\	***************************************
3		
	— NA	
4		
E		
5		\
		
Use the following codes	to designate how the concentrat:	ion was determined:
A = Analytical result	· ·	
E = Engineering judgemen		
	to designate how the concentrati	ion was measured:
V = Volume W = Weight		

8.01	In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.
CBI	
[_]	Process type
	i A
	\sim

8.05 CBI	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than on process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)						
[_]	Process type						
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ⁴ ,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
					A		
			-				

8.05 (continued) Use the following codes to designate the type of hazardous waste: I = IgnitableC = Corrosive R = ReactiveE = EP toxicT = Toxic H = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condens ble at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (speaify phases, e.g., 90% water, 10% toluene) 8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
1		
2		
3	N. A.	
4		
5		
⁴ Use the following codes	to designate how the concentrati	on was determined:
A = Analytical result E = Engineering judgemen	nt/calculation	

A		
	es to designate how the concentra	ation was measured:
V = Volume W = Weight		
\	l test methods used and their det	tection limits in the tab
below. Assign a code	to each test method used and lis	st those codes in column
a. I.	Marka 1	Detection
Code	Method	(<u>+</u> ug/
1		
2		
3		
		a-lawner second and the second and t
5		
6		
	W. A.	
		\

	\						
] Proces	p.	с.	d.	e		f. Costs for	g.
Stream ID Code	Waste Description Code ¹	Management Method Code	Residual Quantities (kg/yr)	of Resi	gement dual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
			N.				
			hit 8-1 to d	esignate	the waste	descriptions	

8.22 CBI	(by capacity)	incinerators	oustion chamber design inerators that are use k or residual treatmen		to burn the r	esiduals identified in			
[_]		Cha	Combustion Chamber Temperature (°C)		Location of Temperature Monitor		Residence Time In Combustion Chamber (seconds)		
	Incinerator 1	Primary	Secondary	Primary	Secondary	Primary	Secondary		
	2 3								
	Indicate by circli	if Office o	of Solid Wast opriate resp	e survey has	s been submit	ted in lieu	of response		
	Yes						_		
8.23 <u>CBI</u> [_]	Complete the fo are used on-sit treatment block	e to burn t	he residuals am(s).	hree largest identified	(by capacit in your proc	y) incinerates block of Types	residual of		
	<u> 1</u>		Control	Device	_	Avail			
	3								
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response. Yes								
	No	• • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	•••••		2		
	Use the follow S = Scrubber (E = Electrosta O = Other (spe	include type	e of scrubbe			l device:			
[_]	Mark (X) this b	ox if you a	ttach a cont	inuation she	et.				

·	
SECTION 9	WORKER EXPOSURE
General Instructions:	
processing the listed substance. Do not in	treatment process on a regular basis (i.e.,

 $[\ \ \]$ Mark (X) this box if you attach a continuation sheet.

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

[_]	<u>1</u>		: Year in Which	Number of	
	Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained
	Date of hire	X	X	1987	30 yas
	Age at hire	X	<u>X</u>	1487	30 .
	Work history of individual before employment at your	ر.		. # 12	an and an
	facility	X			3e
	Sex	X_		1487	<u> 3</u> e
	Race	•			
	Job titles			/957	3 <i>v</i>
	Start date for each job title			1987	<u> </u>
	End date for each job title			1487	3e
Ą	Work area industrial hygiene monitoring data	11	co		
**	Personal employee monitoring data				
	Employee medical history	<u></u>		1437	3.0
	Employee smoking history		<u> </u>		
	Accident history	<u>X</u>	χ	1487	<u> 3</u> e
	Retirement date				0
	Termination date		<u> </u>	1487	_30
	Vital status of retirees	,	_		V
	Cause of death data	AT-	_	-	_

_]	a.	b.	с.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the	Enclosed	NA		
	listed substance	Controlled Release	N A		
		0pen	NA		-
	On-site use as	Enclosed	89783	_5_	11440
	reactant	Controlled Release	NA_		
		0pen	ν A		
	On-site use as	Enclosed	NA		
	nonreactant	Controlled Release	NA		
		0pen	NA	·	
	On-site preparation	Enclosed	NA		
	of products	Controlled Release	<u>NA</u>		
		0pen	NA		

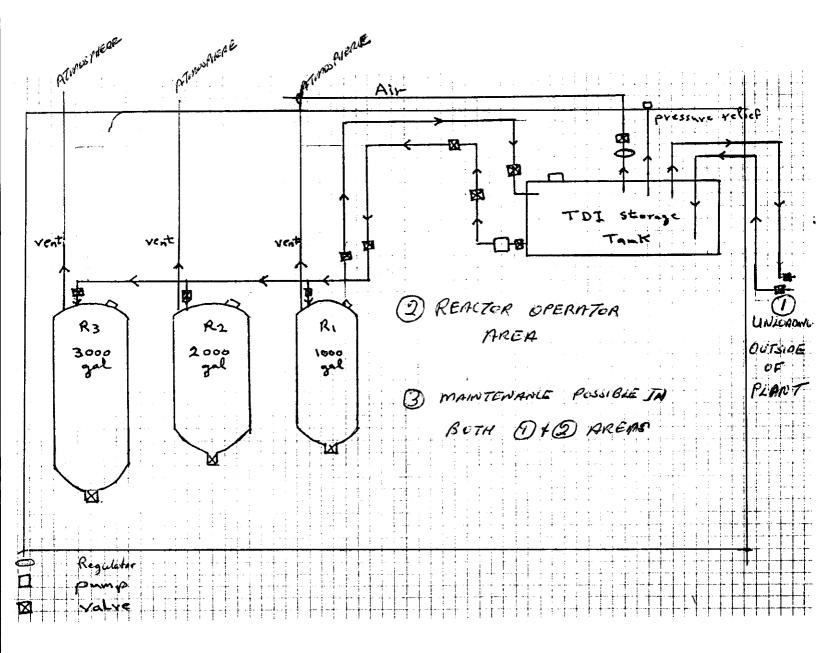
[_] Mark (X) this box if you attach a continuation sheet.

	Provide a descriptive encompasses workers listed substance.	e job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
CBI		
[_]		
	Labor Category	Descriptive Job Title
	A	Receiver - bulk chemique
	В	Reactor Operators Maintenance
	С	Maintenance
	D	
	E	
	F	
	G	
	н	
	I	
	J	
	•	

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

<u>CBI</u>

[_] Process type UNLOADING TOI AND CHARGING TOI INTO REACTION
KETTLES



[_] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	Unloading tank trucks and charging reaction Kettle
	Work Area ID	Description of Work Areas and Worker Activities
	1	Unloading station - unloading TOI from tank truck to star
	2	Beauter Operator - pumping TOF from storage tank to reaction
	3	Maintenance - may be required in beth D&Dane
	4	
	5	
	6	
	7	
	8	
	9	
	10	
<u></u>]	Mark (X) this box if	you attach a continuation sheet.

9.06 CBI	each labor come in cont	ategory at you	our facility that se exposed to the	k area identified encompasses work listed substance ss type and work	ers who may pot . Photocopy th	entially
[_]	Process type	<u>Un</u>	loading tank 1	rules and cha	rging reaction	in kettles
					?	
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	Physical e State of ct Listed	Average Length of Exposure	Number of Days per Year Exposed
	/	1	Inhalation /ske	n Contact. G. U/O.	L. C.	_7
	2	2		his GU/OL		100
		2		n Cented Gulos		« 1
						
	the point o GC = Gas (tempe GU = Gas (tempe inclu SO = Solid Use the fol A = 15 minu B = Greater exceedi	f exposure: condensible a rature and produced and produced and produced for the second secon	at ambient cessure) e at ambient cessure; apors, etc.) to designate ave		slurry quid quid liquid hases, e.g., 10% toluene) posure per day: n 2 hours, but hours n 4 hours, but	not

9.07 CBI	For each labor category represented in question 9.06, indicate the 8-hour Time Weighted Average (TWA) exposure levels and the 15-minute peak exposure levels. Photocopy this question and complete it separately for each process type and work area.					
	Process type	Malast tank lank	and chiera continue keet			
11	Work area	Unloading tank trucks	1 + 2 + 3			
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)			
		less than 0.005 ppm	less than 0.02 ppm			
	2	less than 6.005 ppm	Jess than 0.02 ppm			
	3	Les then 0.005 ppn	less then 0.02 ppm			
						
		400000000000000000000000000000000000000				
						
		f you attach a continuation sheet.				

9.08 CBI	If you monitor worke	r exposur	e to the li	sted substa	nce, compl	ete the fo	llowing table.
(<u> </u>	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing zone	2	1	1	В	N	2
	General work area /	12+3	2				
	Wipe samples		NA				
	Adhesive patches		N.A				-
	Blood samples /	2+3			_D	N	
	Urine samples	1,213			_0	jv	2
	Respiratory samples	1,2+3				\sim	_2
	Allergy tests	P	N.A				
	Other (specify)						
	We have incomp	ofate se	ecords of	percenal	monitor	in perfor	med by
	Other (specify) Ins					•	,
	Other (specify)						
	Complete Physical	1243		i	D		
	¹ Use the following contains A = Plant industrial B = Insurance carries C = OSHA consultant D = Other (specify)	l hygienis er	st		monitorin	g samples:	

[_]	Sample Type	Sa	mpling and Analyt	ical Methodolo	<u>gy</u>		
	Blood	Std Test -	NOT SPECIFIC	FOR 70	τ		
	Urine	570 TET -	NOT SPECIFI	c For To.	<i>E</i>		
	Breathing	Palmonery	Function Test				
9.10 CBI	If you conduct perso specify the followin				ubstance,		
	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number		
	<u>_</u>	0.001 to 0.02	MDA	Instantance Reading			
	¹ Use the following c	odes to designate n	ersonal air monito	oring equipmen	t types:		
	A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)	er tion tube with pump Direct Rundec	t - GAS DE	TECTOR			
	Use the following codes to designate ambient air monitoring equipment types:						
	<pre>F = Stationary moni G = Stationary moni</pre>	ng equipment (speci:	facility nt boundary	-			
	² Use the following c	² Use the following codes to designate detection limit units:					
	A = ppm B = Fibers/cubic ce	ntimeter (f/cc)					

Test Description	Frequency (weekly, monthly, yearly, etc.)
10-11	
	•
	N-M

9.12 CBI	Describe the engineering con to the listed substance. Ph process type and work area.	trols that you u otocopy this que	se to reduce on stion and compl	eliminate worl lete it separato	ker exposur ely for eac
 [_]	Process type	Chargina	reaction	kettles	
	Process type			. Reacter Ope	erator 2
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u></u>	1973		
	General dilution	<u> </u>	1973	<u> </u>	
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment	<u> </u>	1984		
	Other (specify)				
		with the last desirable of Mark State (1994)			

9.13 <u>CBI</u>	Describe all equipment or process modifications you have meaning to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modification the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area.	tion of worker exposure to fication described, state ocopy this question and
[_]	Process type Charging readien Kettles	
	Work area	Reactor Operator 2
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	Change from 53gel Dr. to bulk storage and	25%
	Change from 53 get Dr. to bulk storage and direct changing of TOT into reaction vessels	
	·	

PART	D PERSONAL PROTECTIVE AND SAFET	Y EQUIPMENT		
9.14	Describe the personal protective in each work area in order to resubstance. Photocopy this questand work area.	educe or eliminate	e their exposure to the	e listed
CBI				
<u></u> 1	Process type Unlo	eding tank	trucks	
	Work area			<i></i>
				•
			Haan an	
			Wear or Use	
	Equipment	Types	<u>(Y/N)</u>	
	Respirator	s	<u> </u>	
	Safety gog	gles/glasses	<u> </u>	
	Face shiel	ds	y ka	
	Coveralls		<u> </u>	
	Bib aprons		<u>N</u>	
	Chemical-r	esistant gloves	```	
	Other (spe	cify)		
	Scott Air	Pak available		

9.15	process respirat tested,	type, the tors used, and the ty	work areas who the average us pe and frequen	working with ere the respir sage, whether ncy of the fit process type.	cators are u or not the tests. Ph	sed, the type respirators w	ere fit
CBI							
[_]	Process	type	Unload	ding tank	trucks		
	Work Area	R	espirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
		Drganic	Vapor -	E	<u> </u>	QL	3
	*	RESPIRA	TORS - W	TOSHA APP	LCOEB.		
	$E = 0 \text{ th}$ $^{2} \text{Use the}$ $QL = Qu$	ithly ce a year der (specif	codes to desi	ignate the typ			
	Mowle (V)		if you attach				

PART	E WORK PRACTICES				
9.19 <u>CBI</u> [_]	eliminate worker exposure authorized workers, mark a monitoring practices, prov question and complete it s	to the listed su areas with warnin vide worker train separately for ea	bstance (e.g. g signs, insu ing programs, ch process ty	, restrict en re worker deto etc.). Photo pe and work a	trance only to ection and ocopy this
	Process type In	loading lar	k Trucks	, , , , , , , , , , , , , , , , , , ,	i
	Work area			·· Outside	- hose comed
	Receiver of bu	dk chemica	s has a	check lis	+ procedure
	he goes through	each time	a tenke	ris rece	in This inch
	personal protection	equipment,	proper	hose conne	ctions and velo
	he goes through personal protection orientations and p	provisions to	sespendent	Le spills.	
	Process type Und	loading Tan	k Trucke	tside - hose	connations
7	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day
	Sweeping			-	
	Vacuuming				
	Water flushing of floors			-	
	Other (specify)				
	* We have had o of unleading.	ne miner	spill (les	ss than Igal)	in Hyens
	Mark (X) this box if you a	ittach a continua	tion sheet.		

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes
	No 2
	Emergency exposure
	Yes
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure: Office Plant Local Fire Chief Local Emg Rusp Co-unds
	Emergency exposure: Office Plant Local Fire Chief Local Fing Rosp Co-wid.
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes ①
	No 2
	If yes, where are copies of the plan maintained? Office, Plant For Chif, E.R.Cours
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes ①
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) flant manager
[_]	Mark (X) this box if you attach a continuation sheet.

9.24	Who is responsible for safety and health training at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier
	OSHA consultant
	Other (specify) Plant manager through local Consults: No
9.25	Who is responsible for the medical program at your facility? Circle the appropriate response.
	Plant physician
	Consulting physician
	Plant nurse
	Consulting nurse
	Other (specify)

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area
	Urban area 2
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10

10.02	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.						
	Latitude	••••••	N 42 ° 4	3'30			
	Longitude	•••••••	W 83 ° 15				
	UTM coordinates Zone	UK, North	ing <u>uk</u> , Eas	ting <u>uk</u>			
10.03	If you monitor meteorological condition the following information.	ions in the vicin	ity of your facil	ity, provide			
	Average annual precipitation		Unknown	inches/year			
	Predominant wind direction		Unkneuen	_			
10.04	Indicate the depth to groundwater bel	low your facility	•				
	Depth to groundwater	Depth to groundwater meters					
10.05 CBI	For each on-site activity listed, ind listed substance to the environment. Y, N, and NA.)	licate (Y/N/NA) al (Refer to the in	ll routine releasenstructions for a	es of the definition of			
[_]	On-Site Activity	Envi Air	ronmental Release				
	Manufacturing	AII	<u>Water</u>	Land			
	Importing						
	Processing						
	Otherwise used						
	Product or residual storage						
	Disposal						
	Transport						
	Transport						
	Mark (X) this box if you attach a cont	inuation shoot					

10.06 <u>CBI</u>	Provide the following information for the listed su of precision for each item. (Refer to the instruct an example.)		
[_]	Quantity discharged to the air	4.5	kg/yr <u>+</u>
	Quantity discharged in wastewaters	0	kg/yr ± ;
	Quantity managed as other waste in on-site treatment, storage, or disposal units	0	kg/yr <u>+</u> ;
	Quantity managed as other waste in off-site treatment, storage, or disposal units	0	kg/yr <u>+</u> ;
X	BASED ON INDUSTRY STANDARD	eF sog	Release to
	air per Metric Ten of	70 <u>5</u>	

10.08 CBI	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.								
[_]	Process type								
	Stream ID Code	Control Technology	Percent Efficiency						
	Unlouding	Vent return from storage tank. back into Tank Truck	99 + %						
	Process Stream A.	Vessels are placed under vacuum	45 / 2						
		before charging TOI. Vessels are left	-						
		under partial vacuum during reaction							
		time(46 hrs.) Vacuum is released							
		with dry air and them vent							
		to atmosphere is opened							
		ou attach a continuation sheet.							

10.09 <u>CBI</u> [_]	substance in residual transcriber source. Do sources (e.	in terms of a reatment bloc o not include	Identify each emission point source containing the listed a Stream ID Code as identified in your process block or ck flow diagram(s), and provide a description of each point e raw material and product storage vents, or fugitive emission t leaks). Photocopy this question and complete it separately
	Process typ	oe <u>7</u>	PI AND POLYOL PROCESSED INTO TOU PREPOLYMENS
	Point Source ID Code	<u>:</u>	Description of Emission Point Source
	A	_	Ussiels wented after reaction - non-
		-	measurable emission to atmosphere.

Mark

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this

xod

	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building <u>Height(m)</u>	Building Width(m) ²	Ve Ty
			UK					
				$\overline{}$				
-								
			or adjacent or adjacent b					
				ignate vent	type:			
	H = Hori: V = Vert:	zontal						
							`	\

\		
10 12 <u>CBI</u>	If the listed substance is emitted in parti distribution for each Point Source ID Code Photocopy this question and complete it sep	identified in question 10.09.
[_]	Point source ID code	•••••
	Size Range (microns)	Mass Fraction (% ± % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
		A.
[⁻] 1	Mark (X) this box if you attach a continuation	on sheet.
	. ,	· · · · · · · · · · · · · · · · · · ·

10.13 CBI	Equipment Leaks Complete types listed which are expo according to the specified the component. Do this for residual treatment block fl not exposed to the listed s process, give an overall pe exposed to the listed subst for each process type.	sed to the leading to the leading percessor with the leading to th	listed suent of these type is). Do not this itime per	bstance a e listed dentified ot includ s a batch year tha	nd which substance in your e equipme or inter t the pro	are in see passing process bent types mittently ocess type	rvice through lock or that are operated is				
[_]	Process type This	ano Polvio	11 80	or Fero a		Ta= 001	3 m				
''	Process type TOI AND PELYOLI PROCESSED INTO INT PREADLYMENT Percentage of time per year that the listed substance is exposed to this process type										
			of Compos of Liste	nents in d Substan	Service b	oy Weight ocess Stre	am				
	Equipment Type Pump seals ¹	Less than 5%	<u>5-10%</u>	11-25%	26-75%	76-99%	Greater than 99%				
	Packed	NA									
	Mechanical	2									
	Double mechanical ²	NA									
	Compressor seals ¹	NA									
	Flanges	18									
	Valves										
	Gas ³	2									
	Liquid	12									
	Pressure relief devices ⁴ (Gas or vapor only)	2/	-								
	Sample connections										
	Gas	NA									
	Liquid										
	Open-ended lines ⁵ (e.g., purge, vent)										
	Gas										
	Liquid										
	¹ List the number of pump and compressors	l compressor	seals, r	ather tha	an the nu	mber of pu	umps or				
10.13	continued on next page										

10.13	(continued)										
	greater than the pump stu will detect failure of th	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively									
	³ Conditions existing in the valve during normal operation										
	⁴ Report all pressure relie control devices	ef devices in service	e, including those e	quipped with							
	$^5\mathrm{Lines}$ closed during normal operation that would be used during maintenance operations										
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	lentified in 10.13 to itrolled. If a press	o indicate which pre	ssure relief							
lj	a. Number of	b. Percent Chemiçal	c •	d. Estimated							
	Pressure Relief Devices	in Vessel	Control Device	Control Efficiency ²							
		_ < 570	Mechanical	9517							
	And the state of t										
	Refer to the table in ques heading entitled "Number of Substance" (e.g., <5%, 5-1	of Components in Serv	nd the percent range vice by Weight Perce	given under the nt of Listed							
	Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions										
[_]	Mark (X) this box if you at	tach a continuation	sheet.	Andrew Company of State							

	procedures. Photoco	ppy this question a	na comprete	it separat	ery tor each	process
]	Process type	• • • • • • • • • • • • • • • • • • • •				
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device		Repairs Initiated (days after detection)	Repairs Complete (days aft initiated
	Pump seals	\				
	Packed					
	Mechanical					7 THE STATE OF THE
	Double mechanical					
	Compressor seals					-
	Flanges					
	Valves					
	Gas					
	Liquid					
	Pressure relief devices (gas or vapor only)			o Form,	AL PROGRA	m in p
	Sample connections					
	Gas		`			
	Liquid					
	Open-ended lines					-
	Gas					
	Liquid					
	¹ Use the following c			vice:		
	POVA = Portable organization FPM = Fixed point model of the provided point model (specify)		·			

	10.16 <u>CBI</u>	liquid raw m	, Intermediate aterial, interm treatment block	ediate, and p	product s				he liste	ed substan				
Mark	,—,	5000 61	AL STERME	E TANK	Vessel	Vessel	Vessel		Operat-	-				
3	[[]	Vessel Roo		(liters	Filling Rate	Filling Duration	Inner	Height	Volume		Flow	Diameter	Control Efficiency	Basis for Estimate
thi		Type Seal		per year)	(gpm)	(min)	(111)	<u>(m)</u>	(1)_	Controls'	Rate	(cm)	(%)	ESCHIACE
2 1		<u> 17</u>	100%	46,258	60	60	2.43	41	<u>1900</u>	Valse-	<u>NA</u>	1.9		on NA
if you									-					
π 				-	_								-	
) 기														
continua														
inuat		Use the fol	 lowing codes to	 designate v	 essel tvr	 xe:	 ² Use	 the fo	llowing	codes to	 designa	 te floatir	g roof seal	 s:
2		F = Fixe	d roof	•	-55		MS1	. = Med	hanical	shoe, pri	mary			-
<u>.</u>			act internal fl ontact internal		∍£					ed seconda d, seconda				
		EFR = Exte	mal floating m	coof						nted resil		lled seal	, primary	
			sure vessel (ir zontal	dicate press	ure ratio	g)			n-mounte ather sh	d shield				
			rground				VM1 VM2	= Var = Rin	or moun	ted resili		led seal,	primary	
		3 Indicate we	ight percent of	the listed	guhetano	a Includ					ent in n	arenthesi	e	
			floating roofs	. use instead	subs taric	c. nicion	c are tota	n voin	TIE OIG	anc conte	aic mi þ	ereitresi.	3	
		_	low rate the en	mission contr	പ് കുന്ന	a tas desi	med to be	ndla (s	menify	flow mto	ımi ta)			
			lowing codes to							TIOM TAKE	un (S)			
		C = Calcula		, designate n	min IOI	es (mate	or continu	- errici	arcy.					
		S = Samplir												

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1				
2	\			477,447
3				
4				
5		**Artification or an analysis and an artist and an artist and an artist and artist artist and artist artist and artist artist and artist art		
6		NONE KI		
	nd Speed Wind m/hr) Direct		Temperature (°C)	Precipitation (Y/N)
1		100	(0/	(1/11)
2				
6				
			\	

APPENDIX I	: Li	st o	f Cont	tinuat	ion	Sheets
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Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number (1)	Sheet Page Numbers (2)
9.14	
9,15	
9,19 4 9.20	
	-
	
	•
	· · · · · · · · · · · · · · · · · · ·
Mark (X) this box if you attach a continuation	sheet.

9.14	in each work area in	l protective and safety equorder to reduce or eliminary this question and comple	ate their exposu	re to the list	ted
CBI		ما	1		
[_]	Process type	. Charging read	tion Kettles		
	Work area	•••••	• • • • • • • • • • • • • • • • • • • •	2_	
			Wear or Use		
		Equipment Types	(Y/N)		
		Respirators			
		Safety goggles/glasses			
		Face shields	<i>N</i>		
		Coveralls			
		Bib aprons	_ <i>N</i>		
		Chemical-resistant gloves	<u> </u>		
		Other (specify)			
		Scott Mir Yak asalah	k Y		

 $[\ \ \]$ Mark (X) this box if you attach a continuation sheet.

9.15	If workers use respirators when working with the listed substance, specify for each process type, the work areas where the respirators are used, the type of respirators used, the average usage, whether or not the respirators were fit tested, and the type and frequency of the fit tests. Photocopy this question and complete it separately for each process type.								
<u>CBI</u>			\2A	: 1					
[_]	Process	type Charging	Reac	tion K	ettles				
	Work Area	Respirator Type	Average _Usage	Tested	Type of Fit Test ²	Frequency of Fit Tests (per year)			
	2	* Organic Vapor	A	<u> </u>	QL	_3			
		→ <u>NIOSHA APPROUG</u> e following codes to designate							
	E = Oth ² Use the $QL = Qt$	ekly	the type	of fit tes	::				
[_]	Mark (X)	this box if you attach a con	tinuation	sheet.					

9.19 <u>CBI</u>	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, proquestion and complete it s	to the listed su areas with warnin vide worker train	nbstance (e.g. ng signs, insu ning programs,	, restrict en are worker det etc.). Phot	ntrance only to tection and tocopy this				
[_]	Process type To	Tail Pohul	marace	wite Tot	Property				
	Work area								
	Right to know	to him c	e feks training	as as the s	ph and the				
	training Control								
	for the reactor operators. Retraining is performed tous								
	times per year	•							
9.20	Indicate (X) how often you								
9.20	Indicate (X) how often you leaks or spills of the list separately for each process. Process type	sted substance. ss type and work	Photocopy thi area.	s question an	TOI Prepulym				
	leaks or spills of the lisseparately for each process Process type	sted substance. ss type and work	Photocopy thi area.	s question an	TOI Prepulym				
	leaks or spills of the lisseparately for each process Process type	sted substance. ss type and work Less Than	Photocopy thi area. Process 1-2 Times	s question and the company of the co	TOI Prepulsion Note Than 4				
	leaks or spills of the lisseparately for each process Process type	sted substance. ss type and work Less Than	Photocopy thi area. Process 1-2 Times	s question and the company of the co	TOI Prepulsion Note Than 4				
	leaks or spills of the lisseparately for each process Process type	sted substance. ss type and work Less Than	Photocopy thi area. Process 1-2 Times	s question and the company of the co	TOI Prepulsion Note Than 4				
	Process type To Work area Housekeeping Tasks Sweeping Vacuuming	sted substance. ss type and work Less Than	Photocopy thi area. Process 1-2 Times	s question and the company of the co	TOI Prepulsion Note Than 4				
+	leaks or spills of the lisseparately for each process Process type	Less Than Once Per Day	Photocopy thi area. Process 1-2 Times Per Day	s question and the Ope 3-4 Times Per Day	TOI Prepulym More Than 4 Times Per Day				
+	leaks or spills of the lisseparately for each process Process type	Less Than Once Per Day	Photocopy thi area. Process 1-2 Times Per Day	s question and the Ope 3-4 Times Per Day	TOI Prepulym More Than 4 Times Per Day				
+	leaks or spills of the lisseparately for each process Process type	Less Than Once Per Day	Photocopy this area. Process 1-2 Times Per Day	s question and sed into the Ope 3-4 Times Per Day	More Than 4 Times Per Day				

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(Extra charge) (Release Signature Not Applicable) Total 8 Received By: Total Charges 6 DRY ICE _ Received At

1 Regular Stop

2 On-Call Stop 7 OTHER SPECIAL SERVICE Date/Time Received FedEx Employee Number REVISION DATE 1/88 PRINTED IN U.S.A GBFE 4□ B.S.C. 8 9 SATURDAY PICK-UP Sender authorizes Federal Express to deliver this ship-ment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom. FEDEX Corp. Employee No 009 5 STANDARD AIR Delivery not later than 10 Date/Time for FEDEX Use 11 not later than second busin 12 | HOLIDAY DELIVERY (If offered)

Signature:

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